

0590
0614
#2

OIPE

ENTERED

RAW SEQUENCE LISTING
 PATENT APPLICATION: US/10/007,489B

DATE: 06/14/2002
 TIME: 14:49:25

Input Set : A:\EP.txt
 Output Set: N:\CRF3\06142002\J007489B.raw

SEQUENCE LISTING

- 3 (1) GENERAL INFORMATION:
- 5 (i) APPLICANT: Frayne, Elizabeth Gay
- 7 (ii) TITLE OF INVENTION: Microbial Production of
 Nuclease Resistant DNA, RNA, and Oligo Mixtures
- 10 (iii) NUMBER OF SEQUENCES: 2
- 12 (iv) CORRESPONDENCE ADDRESS:
 (A) ADDRESSEE: Frayne, Elizabeth Gay
 (B) STREET: 2027 Galvin Ln. #1
 (C) CITY: Diamond Bar
 (D) STATE: California
 (E) COUNTRY: USA
 (F) ZIP: 91765
- 19 (v) COMPUTER READABLE FORM:
 (A) MEDIUM TYPE: Diskette, 3.50 inch 1.4 MB
 (B) COMPUTER: IBM
 (C) OPERATING SYSTEM: Windows XP
 (D) SOFTWARE: Microsoft Word
- 24 (vi) CURRENT APPLICATION DATA:
 (A) APPLICATION NUMBER: US/10/007,489B
 (B) FILING DATE: 05-Dec-2001
 (C) CLASSIFICATION:
- 28 (vii) PRIOR APPLICATION DATA:
 (A) APPLICATION NUMBER: US 60/100,231
 (B) FILING DATE: 14-SEP-1998
 (A) APPLICATION NUMBER: US 60/152,371
 (B) FILING DATE: 07-SEP-1999
- 33 (ix) TELECOMMUNICATION INFORMATION:
 (A) TELEPHONE: (909)861-2111/860-7415
- 35 (2) INFORMATION FOR SEQ ID NO: 1:
- 36 (i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 22 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: single
 (D) TOPOLOGY: linear
- 41 (ii) MOLECULE TYPE: genomic DNA
- 42 (iii) HYPOTHETICAL: no
- 43 (iv) ANTI-SENSE: no
- 44 (vi) ORIGINAL SOURCE:
 (A) ORGANISM: Saccharomyces cerevisiae
 (B) STRAIN: YFL039C genomic clone
- 47 (x) PUBLICATION INFORMATION:
 (A) AUTHORS: Murakami Y., Naitou M., Hagiwara H., Shibata T.,

RAW SEQUENCE LISTING
PATENT APPLICATION: US/10/007,489B

DATE: 06/14/2002
TIME: 14:49:25

Input Set : A:\EP.txt
Output Set: N:\CRF3\06142002\J007489B.raw

49 Ozawa M., Sasanuma S.I., Sasanuma M., Tsuchiya Y., Soeda E.,
50 Yokoyama K., Yamazaki M., Tashiro H., Eki T.
51 (B) TITLE: Analysis of the nucleotide sequence of chromosome VI from
52 *Saccharomyces cerevisiae*.

53 (C) JOURNAL: Nature Genet.
54 (D) VOLUME: 10
55 (F) PAGES: 261-268
56 (G) DATE: 1995

57 (K) RELEVANT RESIDUES IN SEQ ID NO: 1: 10-31

58 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1:

59 GAG GTT GCT GCT TTG GTT ATT G 22

60 (2) INFORMATION FOR SEQ ID NO: 2:

61 (i) SEQUENCE CHARACTERISTICS:
62 (A) LENGTH: 22 base pairs
63 (B) TYPE: nucleic acid
64 (C) STRANDEDNESS: single
65 (D) TOPOLOGY: linear

66 (ii) MOLECULE TYPE: genomic DNA

67 (iii) HYPOTHETICAL: no

68 (iv) ANTI-SENSE: yes

69 (vi) ORIGINAL SOURCE:

70 (A) ORGANISM: *Saccharomyces cerevisiae*

71 (B) STRAIN: YFLO39C genomic clone

72 (x) PUBLICATION INFORMATION:

73 (A) AUTHORS: Murakami Y., Naitou M., Hagiwara H., Shibata T.,

74 Ozawa M., Sasanuma S.I., Sasanuma M., Tsuchiya Y., Soeda E.,

75 Yokoyama K., Yamazaki M., Tashiro H., Eki T.

76 (B) TITLE: Analysis of the nucleotide sequence of

77 chromosome VI from *Saccharomyces cerevisiae*.

78 (C) JOURNAL: Nature Genet.

79 (D) VOLUME: 10

80 (F) PAGES: 261-268

81 (G) DATE: 1995

82 (K) RELEVANT RESIDUES IN SEQ ID NO: 2: 1097-1118

83 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2:

84 TT GTG GTG AAC GAT AGA TGG AC 22

VERIFICATION SUMMARY
PATENT APPLICATION: US/10/007,489B

DATE: 06/14/2002
TIME: 14:49:26

Input Set : A:\EP.txt
Output Set: N:\CRF3\06142002\J007489B.raw

L:25 M:220 C: Keyword misspelled or invalid format, -[(A) APPLICATION NUMBER:]
L:26 M:220 C: Keyword misspelled or invalid format, -[(B) FILING DATE:]

SEQUENCE LISTING

(1) GENERAL INFORMATION:

(i) APPLICANT: Frayne, Elizabeth Gay

(ii) TITLE OF INVENTION: Microbial Production of Nuclease Resistant DNA, RNA, and

Oligo Mixtures

(iii) NUMBER OF SEQUENCES: 2

(iv) CORRESPONDENCE ADDRESS:

(A) ADDRESSEE: Frayne, Elizabeth Gay
(B) STREET: 2027 Galvin Ln. #1
(C) CITY: Diamond Bar
(D) STATE: California
(E) COUNTRY: USA
(F) ZIP: 91765

(v) COMPUTER READABLE FORM:

(A) MEDIUM TYPE: Diskette, 3.50 inch 1.4 MB
(B) COMPUTER: IBM
(C) OPERATING SYSTEM: Windows 98
(D) SOFTWARE: Microsoft Word

(vi) CURRENT APPLICATION DATA:

(A) APPLICATION NUMBER: US 10/007,489
(B) FILING DATE: 12/05/2001
(C) CLASSIFICATION: 435/41, 435/71, 435/91, 435/131, 435/154, 435/172, 435/183; 935, 536/27

(vii) PRIOR APPLICATION DATA:

(A) APPLICATION (PROVISIONAL) NUMBER: US 60/100,231
(B) FILING DATE: 9/14/98
(C) APPLICATION (PROVISIONAL) NUMBER: 60/152,371
(D) FILING DATE: 9/07/99

(viii) TELECOMMUNICATION INFORMATION:

(A) TELEPHONE: (909)861-2111/860-7415
(2) INFORMATION FOR SEQ ID NO:1:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 22 bp
(B) TYPE: nucleic acid
(C) STRANDEDNESS: single
(D) TOPOLOGY: linear

(ii) MOLECULE TYPE:

(A) DESCRIPTION: genomic DNA

(iii) HYPOTHETICAL: no

(iv) ANTI-SENSE: no

(v) ORIGINAL SOURCE:

(A) ORGANISM: *Saccharomyces cerevisiae*

(B) STRAIN: YFL039C genomic clone

(vi) PUBLICATION INFORMATION:

(A) AUTHORS: AUTHORS: Murakami Y., Naitou M., Hagiwara H., Shibata T., Ozawa M., Sasanuma S.I., Sasanuma M., Tsuchiya Y., Soeda E., Yokoyama K., Yamazaki M., Tashiro H., Eki T.

(B) TITLE: Analysis of the nucleotide sequence of chromosome VI from *Saccharomyces cerevisiae*.

(C) JOURNAL: Nature Genet.

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(D) VOLUME: 10
(C) PAGES: 261-268
(D) DATE:1995
(E) RELEVANT RESIDUES IN SEQ ID NO: 1: 10-31
(vii) SEQUENCE DESCRIPTION: SEQ ID NO: 1:
GAG GTT GCT GCT TTG GTT ATT G
(3) INFORMATION FOR SEQ ID NO: 2:
(i)SEQUENCE CHARACTERISTICS:
(A) LENGTH: 22 bp
(B) TYPE: nucleic acid
(C) STRANDEDNESS: single
(D) TOPOLOGY: linear
(ii) MOLECULE TYPE:
(A)DESCRIPTION: genomic DNA
(iii) HYPOTHETICAL: no
(iv) ANTI-SENSE: yes
(v) ORIGINAL SOURCE:
(A) ORGANISM: Saccharomyces cerevisiae
(B) STRAIN: YFLO39C genomic clone
(vi) PUBLICATION INFORMATION:
(A) AUTHORS: AUTHORS: Murakami Y., Naitou M., Hagiwara H., Shibata T., Ozawa M., Sasanuma S.I., Sasanuma M., Tsuchiya Y., Soeda E., Yokoyama K., Yamazaki M., Tashiro H., Eki T.
(B) TITLE: Analysis of the nucleotide sequence of chromosome VI from Saccharomyces cerevisiae.
(C) JOURNAL: Nature Genet.
(D) VOLUME: 10
(B) PAGES: 261-268
(C) DATE:1995
(D) RELEVANT RESIDUES IN SEQ ID NO: 2: 1097-1118
(vii) SEQUENCE DESCRIPTION: SEQ ID NO:2:
TT GTG GTG AAC GAT AGA TGG AC

4

3

10/07/489

ppr 1-3

Does Not Comply
Corrected Diskette Needed

SEQUENCE LISTING

(1) GENERAL INFORMATION

(i) APPLICANT: Elizabeth Frayne

(ii) ~~APPLICANT ADDRESS:~~ 2027 Galvin Ln. #1 *delete*

(iii) ~~TITLE OF INVENTION:~~ Microbial Production of
Nuclease Resistant DNA, RNA, and Oligo Mixtures

(iv) ~~NUMBER OF SEQUENCES:~~ 2

(v) ~~CORRESPONDENCE ADDRESS:~~

- (A) ADDRESSEE: Frayne Consultants
- (B) STREET: 1249 S. Diamond Bar Blvd. #125
- (C) CITY: Diamond Bar
- (D) STATE: California
- (E) COUNTRY: USA
- (F) ZIP: 91765

(vi) ~~COMPUTER READABLE FORM~~

- (A) MEDIUM TYPE: Diskette, 3.50 inch 1.2 KB
- (B) COMPUTER: IBM
- (C) OPERATING SYSTEM: Windows 98
- (D) SOFTWARE: Microsoft Word

(vii) ~~CURRENT APPLICATION DATA~~

(A) APPLICATION NUMBER:

(B) FILING DATE:

(C) ~~CLASSIFICATION: 435/41, 435/71, 435/91,
435/131, 435/154, 435/172, 435/103, 935,
536/27~~ *delete*

(viii) ~~PRIOR APPLICATION DATA:~~

(A) APPLICATION (PROVISIONAL) NUMBER: *move up next to current (A) APPLICATION Number*
~~unknown, 60/152, 3716, 60/100, 231~~

(B) FILING DATE: *current unknown, 9/07/99*

(A) *9/14/99*

(B) *14-SEP-1999*

07-SEP-1999

*use this
date
format*

(ix) TELECOMMUNICATION INFORMATION: *colon*

(A) TELEPHONE: (909) 861-2111/860-7415

(B) EMAIL: *colon* *frayne@frayneccs.com*

(2) INFORMATION FOR SEQ ID NO: 1:

(i) SEQUENCE CHARACTERISTICS: *insert colon*

(A) LENGTH: 22 bp

*after each
heading*

*list each prior
serial number
separately*

10/09/489 2

- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: single
- (D) TOPOLOGY: linear

- (ii) MOLECULE TYPE:
 - (A) DESCRIPTION: oligonucleotide

- (iii) HYPOTHETICAL: no

- (iv) ANTI-SENSE: no

- (vi) ORIGINAL SOURCE:
 - (A) ORGANISM: *Saccharomyces cerevisiae*
 - (B) STRAIN: YFLO39C genomic clone

- (x) PUBLICATION INFORMATION:

(A) AUTHORS: Murakami Y., Naitou M., Hagiwara H., Shibata T., Ozawa M., Sasanuma S.I., Sasanuma M., Tsuchiya Y., Soeda E., Yokoyama K., Yamazaki M., Tashiro H., Eki T.

(B) TITLE: Analysis of the nucleotide sequence of chromosome VI from *Saccharomyces cerevisiae*.

(C) JOURNAL: Nature Genet.

(D) VOLUME: 10

(F) PAGES: 261-268

(G) DATE: 1995

(K) RELEVANT RESIDUES IN SEQ ID NO: 1: 10-31

- (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1:

GAGGTTGCTG CTTGGTTAT TG

22 SURNAME OTHER NAMES
T. and/or INITIALS

- (2) INFORMATION FOR SEQ ID NO: 2:

- (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 22 bp
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: single
- (D) TOPOLOGY: linear

- (ii) MOLECULE TYPE:

- (A) DESCRIPTION: oligonucleotide

- (iii) HYPOTHETICAL: no

- (iv) ANTI-SENSE: no

Per 1.823
of Sequence
Rules, list
each author
on a
separate
line

(maximum
of first
ten authors)

insert cumulative
base total at right
margin of each line

10/00/97, 4893

→(vi)

→

ORIGINAL SOURCE:

(A) → ORGANISM: *Saccharomyces cerevisiae* misspelled

(B) → STRAIN: YFL039C genomic clone

(x) → PUBLICATION INFORMATION:

(A) AUTHORS: ~~AUTHORS~~ Murakami Y., Naitou M.,

Hagiwara H., Shibata T., Ozawa M., Sasanuma S.I.,
Sasanuma M., Tsuchiya Y., Soeda E., Yokoyama K.,
Yamazaki M., Tashiro H., Eki T.

(B) TITLE: Analysis of the nucleotide sequence of
chromosome VI from *Saccharomyces cerevisiae*.

(C) JOURNAL: *Nature Genet.*

(D) VOLUME: 10

(F) → PAGES: 261-268

(G) → DATE: 1995

(K) → RELEVANT RESIDUES IN SEQ ID NO⁸ ①: 1097-1118

do you mean 2?

(xi) → SEQUENCE DESCRIPTION: SEQ ID NO⁸ 2:

TTGTGGTGAA CGATAGATGG AC

22 ← insert

1) Please consult Sequence
Rules for valid format.

2) See sample Sequence Listing (attached)

3) FYI: all U.S. applications filed on or
after July 1, 1998, and which cannot
claim a prior invention filed before
July 1, 1998, need to be in new
Sequence Rules format.